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(54) Title: METHOD FOR THE PRODUCTION OF BIOACTIVE SUBSTANCES FROM THE NOVEL ACTINOMYCETE TAXON MAR2 ("Marinophilus")

(57) Abstract: The present invention provides methods for the isolation of a new group of actinomycetes and for the identification of members of this group based on characteristic nucleotide sequences and phylogenetic analyses. This group is phylogenetically distinct from all other known actinomycetes and represents a novel genus that includes multiple new species. Members of this group can be recognized by signature MAR2 nucleotides present in their 16S rRNA gene sequences and by standard phylogenetic treeing methods.